

AMENDMENT OF THE CLAIMS:

1. (Original) A method of loading a container with a defined quantity of product which comprises:

- a) closing off a perforation in a perforated plate;
- b) directing powder into said closed-off perforation by the sweeping action of a first director blade spaced from said perforated plate; and
- c) transferring the contents of the perforation to said container,

characterized by relative rotary motion of the perforated plate and said first director blade.

2. (Original) A method according to claim 1, wherein the first director blade is held static and the perforated plate moves in rotary fashion relative thereto.

3. (Original) A method according to claim 1, wherein the perforated plate is held static and the first director blade moves in rotary fashion relative thereto.

4. (Original) A method according to claim 1, wherein both of the first director blade and the perforated plate both move in rotary fashion.

5. (Currently amended) A method according to ~~any of claims 1 to 4~~ claim 1, wherein the perforated plate is in the form of a planar disk having plural perforations arranged in circular fashion thereon.

6. (Currently amended) A method according to ~~any of claims 1 to 5~~ claim 1, wherein the closing off is achievable by the use of a blanking plate.

7. (Currently amended) A method according to ~~any of claims 1 to 5~~ claim 1, wherein the closing off is achievable by the use of a blanking pin inserted into the perforation.

8. (Original) A method according to claim 7, wherein the blanking pin is moveable within the perforation to adjust the volume of the closed-off perforation.

9. (Currently amended) A method according to ~~any of claims 1 to 5~~ claim 1, wherein the closing off is achievable by placing a container in registration with the perforation.

10. (Currently amended) A method according to ~~any of claims 1 to 10~~ claim 1, wherein the first director blade presents a forward acute angle to the path of relative motion.

11. (Original) A method according to claim 10, wherein said forward acute angle is between 1 and 60°.

12. (Original) A method according to claim 11, wherein the forward acute angle is between 5 and 25°.

13. (Currently amended) A method according to ~~any of claims 10 to 12~~ claim 10, wherein the first director blade presents multiple forward acute angles to the path of relative motion.

14. (Original) A method according to claim 13, wherein the first director blade is curved in form.

15. (Original) A method according to claim 13, wherein the first director blade is articulated in form.

16. (Currently amended) A method according to ~~any of claims 10 to 15~~ claim 15, wherein the first director blade has a flat tail section.

17. (Currently amended) A method according to ~~any of claims 1 to 16~~ claim 1, wherein a thin layer of powder is left on the perforated plate after movement of the first director blade.

18. (Original) A method according to claim 17, wherein the depth of said thin layer of powder is from 3 to 20 mm.

19. (Original) A method according to claim 18, wherein the depth of said thin layer of powder is from 4 to 8 mm.

20. (Currently amended) A method according to ~~any of claims 1 to 19~~ claim 1, wherein the powder is further directable by at least one subsequent director blade.

21. (Original) A method according to claim 20, wherein the at least one subsequent director blade moves along the perforated plate at a lower level than that of the first director blade.

22. (Original) A method according to claim 21, wherein the distance between the level of movement of the first director blade and the at least one subsequent director blade is 0 to 12 mm.

23. (Original) A method according to claim 22, wherein the distance between the level of movement of the first director blade and the at least one subsequent director blade is 1 to 3 mm.

24. (Currently amended) A method according to ~~either any of claims 1 to 23~~ claim 1, additionally comprising removing excess powder from said perforated plate subsequent to directing powder into the perforation.

25. (Original) A method according to claim 24, comprising removing said excess powder by the action of a wiper.

26. (Currently amended) A method according to ~~any of claims 1 to 25~~ claim 1, wherein the contents of the perforation are transferable by the action of a transfer pin.

27. (Currently amended) A method according to ~~any of claims 1 to 26~~ claim 1, wherein directing powder into the closed-off perforation and transfer into the container is a continuous step.

28. (Currently amended) A method according to ~~any of claims 1 to 25~~ claim 1, wherein transfer of the contents of the perforation to the container comprises:

- a) reopening the perforation;
- b) placing the container in registration with the perforation; and
- c) transferring the contents of the perforation into the container.

29. (Currently amended) A method according to ~~any of claims 1 to 25~~ claim 1, wherein the contents of the perforation are transferable by the action of a vacuum system.

30. (Original) A method according to claim 29, wherein said vacuum system comprises a vacuum head and at least one vacuum cup.

31. (Currently amended) A method according to ~~any of claims 1 to 30~~ claim 1, additionally comprising compacting the powder in the perforation.

32. (Original) A method according to claim 31, wherein the powder is compacted to a volume of between 50 and 100% of the original volume of powder in the closed-off perforation.

33. (Original) A method according to claim 32, wherein the powder is compacted to a volume of between 70 and 90% of the original volume of powder in the closed-off perforation.

34. (Currently amended) A method according to ~~any of claims 31 to 33~~ claim 31, wherein the powder is compactable by the action of a compacting pin.

35. (Currently amended) A method according to ~~either of claims 26 or 34~~ claim 26, wherein the transfer pin and the compacting pin are integral.

36. (Currently amended) A method according to ~~either of claims 26 or 34~~ claim 26, wherein the transfer pin and the compacting pin are identical.

37. (Currently amended) A method according to ~~any of claims 1 to 36~~ claim 1, wherein the container is a blind cavity.

38. (Original) A method according to claim 37, wherein the blind cavity is selected from the group consisting of a blister pocket, an injection moulded plastic pocket, a capsule and a bulk container.

39. (Currently amended) A method according to ~~any of claims 1 to 38~~ claim 1, additionally comprising applying a lid to the container to protect the contents therein.

40. (Original) A method of loading each of plural blisters arranged in series on an elongate blister strip with a defined quantity of product, which comprises:

- a) closing off plural perforations in a perforated plate, said plural perforations being arranged in series;
- b) directing powder into said plural closed-off perforations by the sweeping action of a first director blade spaced from said perforated plate; and
- c) transferring the contents of each of the perforations to a corresponding blister of said elongate blister strip,

characterized by relative rotary motion of the perforated plate and said first director blade.

41. (Currently amended) A method according to claim ~~41~~ 40, wherein in step c) each perforation of the perforated plate is serially brought into registration with the corresponding blister of the blister strip.

42. (Original) A method according to claim 41, wherein at registration the perforated plate is rotating and the blister strip is moving on a linear path.

43. (Currently amended) A method according to ~~any of claims 1 to 42~~ claim 1, wherein the powder comprises a medicament.

44. (Original) A method according to claim 43, wherein the medicament is selected from the group consisting of albuterol, salmeterol, fluticasone propionate and beclomethasone dipropionate and salts or solvates thereof and any mixtures thereof.

45. (Original) An apparatus for loading a container with a defined quantity of product, which comprises:

- a) a perforated plate;
- b) a closure for reversibly closing off a perforation in the perforated plate;
- c) a director for directing powder into said closed-off perforation, said director comprising a first director blade spaced from the perforated plate; and
- d) a transferor for transferring the contents of the perforation to said container,

wherein the perforated plate and said first director blade are movable in a relative rotary fashion.

46. (Original) An apparatus according to claim 45, wherein the first director blade is held static and the perforated plate is movable in rotary fashion relative thereto.

47. (Original) An apparatus according to claim 45, wherein the perforated plate is held static and the first director blade is movable in rotary fashion relative thereto.

48. (Original) An apparatus according to claim 45, wherein both of the first director blade and the perforated plate are movable in rotary fashion.

49. (Currently amended) An apparatus according to ~~any of claims 45 to 48~~ claim 45, wherein the perforated plate is in the form of a planar disk having plural perforations arranged in circular fashion thereon.

50. (Currently amended) An apparatus according to ~~any of claims 45 to 49~~ claim 45, wherein the closure comprises a blanking plate.

51. (Currently amended) An apparatus according to ~~any of claims 45 to 50~~ claim 45, wherein the closure comprises a blanking pin inserted into the perforation.

52. (Original) An apparatus according to claim 51, wherein the blanking pin is moveable within the perforation to adjust the volume of the perforation.

53. (Currently amended) An apparatus according to ~~any of claims 45 to 52~~ claim 45, wherein the closure comprises the container placed in registration with the perforation.

54. (Currently amended) An apparatus according to ~~any of claims 45 to 53~~ claim 45, wherein the first director blade presents a forward acute angle to the path of relative motion.

55. (Original) An apparatus according to claim 54, wherein the forward acute angle is between 1 and 60°.

56. (Original) An apparatus according to claim 55, wherein the forward acute angle is between 5 and 25°.

57. (Currently amended) An apparatus according to ~~any of claims 54 to 56~~ claim 54, wherein the first director blade presents multiple forward acute angles to the path of relative motion.

58. (Original) An apparatus according to claim 57, wherein the first director blade is curved in form.

59. (Original) An apparatus according to claim 58, wherein the first director blade is articulated in form.

60. (Currently amended) An apparatus according to ~~any of claims 45 to 59~~ claim 45, wherein the first director blade has a flat tail section.

61. (Currently amended) An apparatus according to ~~any of claims 45 to 60~~ claim 45, wherein the first director blade is positioned to leave a gap of between 3 and 20mm between the first director blade and the perforated plate.

62. (Original) An apparatus according to claim 61, wherein the first director blade is positioned to leave a gap of between 4 and 8 mm between the first director blade and the perforated plate.

63. (Currently amended) An apparatus according to ~~any of claims 45 to 62~~claim 45, wherein the director further comprises at least one subsequent director blade.

64. (Original) An apparatus according to claim 63, wherein the at least one subsequent director blade is positioned closer to the perforated plate than the first director blade.

65. (Original) An apparatus according to claim 64, wherein the at least one subsequent director blade is positioned 0 to 12 mm closer to the perforated plate than the first director blade.

66. (Original) An apparatus according to claim 65, wherein the at least one subsequent director blade is positioned 1 to 3 mm closer to the perforated plate than the first director blade.

67. (Currently amended) An apparatus according to ~~any of claims 45 to 66~~claim 45, wherein the transferor comprises a transferor pin.

68. (Currently amended) An apparatus according to ~~any of claims 45 to 66~~claim 45, wherein the transferor comprises a vacuum system.

69. (Original) An apparatus according to claim 68, wherein the vacuum system comprises a vacuum head and at least one vacuum cup.

70. (Currently amended) An apparatus according to ~~any of claims 45 to 69~~claim 45, additionally comprising a compactor for compacting the powder in the perforation.

71. (Original) An apparatus according to claim 70, wherein the compactor comprises a compactor pin.

72. (Currently amended) An apparatus according to ~~either of claims 70 or 71~~ claim 70, wherein the transferor and compactor are integral.

73. (Currently amended) An apparatus according to ~~either of claims 70 or 71~~ claim 70, wherein the transferor and compactor are identical.

74. (Currently amended) An apparatus according to ~~any of claims 45 to 73~~ claim 45, additionally comprising registration means for registering the container with the perforation.

75. (Currently amended) An apparatus according to ~~any of claims 45 to 74~~ claim 45, additionally comprising a powder remover for removing excess powder from the perforated plate subsequent to action of the powder director.

76. (Original) An apparatus according to claim 75, wherein the powder remover comprises a wiper.

77. (Currently amended) An apparatus according to ~~any of claims 45 to 76~~ claim 45, wherein the container is a blind cavity.

78. (Original) An apparatus according to claim 77, wherein the blind cavity is selected from the group consisting of a blister pocket, an injection moulded plastic pocket, a capsule and a bulk container.

79. (Currently amended) An apparatus according to ~~any of claims 45 to 78~~ claim 45, additionally comprising a lid applier for applying a lid to the container to protect the contents thereof.

80. (Original) An apparatus for loading each of plural blisters arranged in series on an elongate blister strip with a defined quantity of product, which comprises:

- a) a perforated plate having plural perforations therein, said plural perforations being arranged in series;
- b) a closure for reversibly closing off each of said plural perforations in the perforated plate;
- c) a director for directing powder into each of said closed-off perforations, said director comprising a first director blade spaced from the perforated plate; and
- d) a transferor for transferring the contents of each of the perforations to a corresponding blister of said elongate blister strip,

wherein the perforated plate and said first director blade are movable in a relative rotary fashion.

81. (Original) An apparatus according to claim 80, wherein the perforated plate is in the form of a planar disk having plural perforations arranged in circular fashion thereon.

82. (Currently amended) An apparatus according to ~~either of claims 80 or 81~~ claim 80, additionally comprising registration means to serially bring each perforation of the perforated plate into registration with a corresponding blister of the blister strip.

83. (Original) An apparatus according to claim 82, additionally comprising rotational means to rotate the perforated plate and moving means to move the blister strip in linear fashion.

84. (Currently amended) An apparatus according to claim 45 ~~any of claims 45 to 83~~, further comprising powder.

85. (Original) An apparatus according to claim 84, wherein the powder comprises a medicament.

86. (Original) An apparatus according to claim 85, wherein the medicament is selected from the group consisting of albuterol, salmeterol, fluticasone propionate and beclomethasone dipropionate and salts or solvates thereof and any mixtures thereof.

87. (Currently amended) A container loaded with a powder product obtainable by the method according to ~~any of claims 1 to 44~~ claim 1.